AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (original): A gallium nitride-based compound semiconductor light-emitting device comprising an n-type semiconductor layer of a gallium nitride-based compound semiconductor, a light-emitting layer of a gallium nitride-based compound semiconductor and a p-type semiconductor layer of a gallium nitride-based compound semiconductor formed on a substrate in this order, and having a negative electrode and a positive electrode provided on the n-type semiconductor layer and the p-type semiconductor layer, respectively; wherein the negative electrode comprises a bonding pad layer and a contact metal layer which is in contact with the n-type semiconductor layer, and the contact metal layer is composed of Cr or a Cr alloy and formed through sputtering.
- 2. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 1, wherein the Cr alloy includes Cr and a metallic element having a work function of 4.5 eV or less.
- 3. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 2, wherein the metallic element having a work function of 4.5 eV or less is at

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least one metallic element selected from the group consisting of Al, Ti, Si, Mn, Fe, Co, Ni, Cu, Zr, Nb, Mo, Hf, Ta, W, and V.

- 4. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 3, wherein the metallic element having a work function of 4.5 eV or less is at least one metallic element selected from the group consisting of Al, V, Nb, Mo, W, and Mn.
- 5. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 1</u> any one of claims 1 to 4, wherein the Cr alloy has a Cr content of 1 mass% or more and less than 100 mass%.
- 6. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 5, wherein the Cr alloy has a Cr content of 10 mass% or more.
- 7. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 1</u> any one of claims 1 to 6, wherein the contact metal layer has a thickness of 1 to 500 nm.
- 8. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 7, wherein the contact metal layer has a thickness of 10 nm or more.

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- 9. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to claim 1 any one of claims 1 to 8, wherein the bonding pad layer is formed of a metal selected from the group consisting of Au, Al, Ni, and Cu, or an alloy containing the metal.
- 10. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 1 any one of claims 1 to 9</u>, wherein the bonding pad layer has a thickness of 100 to 1,000 nm.
- 11. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 10, wherein the bonding pad layer has a thickness of 200 to 500 nm.
- 12. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 1</u> any one of claims 1 to 11, wherein an Au-Sn alloy layer is provided on the bonding pad layer.
- 13. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 12, wherein the Au-Sn alloy layer has a thickness of 200 nm or more.

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14. (currently amended): A gallium nitride-based compound semiconductor lightemitting device according to <u>claim 1</u> any one of claims 1 to 11, wherein a lead free solder layer is provided on the bonding pad layer.

15. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 14, wherein the lead free solder layer has a thickness of 200 nm or more.

16. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 1</u> any one of claims 1 to 15, wherein the light-emitting device has an adhesion layer formed of Ti between the contact metal layer and the bonding pad layer.

17. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 16, wherein the adhesion layer has a thickness of 1 to 100 nm.

18. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 17, wherein the adhesion layer has a thickness of 10 nm or more.

19. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 1 any one of claims 1 to 15</u>, wherein the light-emitting device has a barrier layer between the contact metal layer and the bonding pad layer.

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20. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 12any one of claims 12 to 18</u>, wherein the light-emitting device has a barrier layer between the bonding pad layer and the Au-Sn alloy layer or the lead free solder layer.

- 21. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to claim 19-or 20, wherein the barrier layer is formed of a metal selected from the group consisting of Ti, Zr, Hf, Ta, W, Re, Os, Ir, Pt, Fe, Co, Ni, Ru, Rh, and Pd, or an alloy containing the metal.
- 22. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 21, wherein the barrier layer is formed of a metal selected from the group consisting of Ti, Ta, W, and Pt, or an alloy containing the metal.
- 23. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 19</u> any one of claims 19 to 22, wherein the barrier layer has a thickness of 10 to 500 nm.
- 24. (original): A gallium nitride-based compound semiconductor light-emitting device according to claim 23, wherein the barrier layer has a thickness of 50 to 300 nm.

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- 25. (currently amended): A gallium nitride-based compound semiconductor light-emitting device according to <u>claim 1</u> any one of claims 1 to 24, wherein the light-emitting device is of a flip-chip type.
- 26. (original): A negative electrode for use in a gallium nitride-based compound semiconductor light-emitting device comprising a bonding pad layer and a contact metal layer which is in contact with the n-type semiconductor layer, wherein the contact metal layer is composed of Cr or a Cr alloy and formed through sputtering.
- 27. (original): A negative electrode for use in a gallium nitride-based compound semiconductor light-emitting device according to claim 26, wherein the light-emitting device is of a flip-chip type.
- 28. (original): A method for manufacturing a gallium nitride-based compound semiconductor light-emitting device comprising
- (a) forming an n-type semiconductor layer of a gallium nitride-based compound semiconductor, a light-emitting layer of a gallium nitride-based compound semiconductor and a p-type semiconductor layer of a gallium nitride-based compound semiconductor on a substrate in this order,

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(b) providing a positive electrode and a negative electrode, which comprises a bonding pad layer and a contact metal layer, on the p-type semiconductor layer and the n-type semiconductor layer, respectively;

wherein the contact metal layer is forming through sputtering Cr or a Cr alloy on the n-type semiconductor layer to attain Ohmic contact without performing annealing.

29. (currently amended): A lamp comprising a gallium nitride compound semiconductor light-emitting device according to <u>claim 1 any one of claims 1 to 25</u>.